IN THE CLAIMS

1. (Currently Amended) A method for providing a response to a cache access request, the method comprising:

receiving a cache access request associated with a memory line at a cache coherence controller from a processor in a cluster of processors, the cluster of processors interconnected in a point-to-point architecture:

obtaining response information for the cache access request from a remote data cache associated with the cache coherence controller, wherein the remote data cache receives data and state information for memory lines of remote clusters;

determining that the cache access request can be handled locally by using the remote data cache without having to probe remote nodes; and

providing response information with a completion indicator to the processor when it is determined that the cache access request can be handled locally.

- 2. (Previously Presented) The method of claim 1, wherein the cache access request can be handled locally if a valid copy of the memory line is in the remote data cache.
- 3. (Original) The method of claim 1, wherein response information includes state information.
- 4. (Previously Presented) The method of claim 2, wherein the completion indicator is a completion bit.
- 5. (Original) The method of claim 1, wherein the completion indicator notifies the processor that the response from the cache coherence controller will be the only response.
- 6. (Original) The method of claim 1, wherein the processor is a request processor in a request cluster.
- 7. (Original) The method of claim 1, wherein the completion indicator allows the cache coherence controller to avoid probing local or remote nodes.
- 8. (Original) The method of claim 1, wherein the processor sends a source done upon identifying the completion indicator in the response.
 - 9. (Original) The method of claim 8, wherein the processor sends the source done to the cache coherence controller.
 - 10. (Original) The method of claim 9, wherein the processor sends the source done to the cache coherence controller acting as a memory controller.

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11. (Previously Presented) A processing cluster, comprising:

a plurality of processors interconnected in a point-to-point architecture;

a cache coherence controller configured to receive a cache access request associated with a memory line from a first processor amongst the plurality of processors, obtain response information for the cache access request from a remote data cache associated with the cache coherence controller and provide response information with a completion indicator to the processor if it is determined that a valid copy of the memory line is in the remote data cache.

- 12. (Original) The processing cluster of claim 11, wherein response information is provided in a response packet.
- 13. (Original) The processing cluster of claim 11, wherein response information includes state information.
- 14. (Original) The processing cluster of claim 12, wherein response information includes data.
- 15. (Original) The processing cluster of claim 11, wherein the completion indicator notifies the first processor that the response from the cache coherence controller will be the only response.
- 16. (Original) The processing cluster of claim 11, wherein the first processor is a request processor in a request cluster.
- 17. (Original) The processing cluster of claim 11, wherein the completion indicator allows the cache coherence controller to avoid probing local or remote nodes.
- 18. (Original) The processing cluster of claim 11, wherein the first processor sends a source done upon identifying the completion indicator in the response.
 - 19. (Original) The processing cluster of claim 18, wherein the first processor sends the source done to the cache coherence controller.
 - 20. (Previously Presented) A cache coherence controller, comprising:

means for receiving a cache access request associated with a memory line at a cache coherence controller from a processor in a cluster of processors, the cluster of processors interconnected in a point-to-point architecture;

means for obtaining response information for the cache access request from a remote data cache associated with the cache coherence controller; and

means for providing response information with a completion indicator to the processor after determining that the cache access request can be completed locally.

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